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NOTICE OF ALLOWANCE AND FEE(S) DUE

24272

7590

04/24/2008

Gregory J. Koerner Redwood Patent Law 1291 East Hillsdale Boulevard Suite 205 Foster City, CA 94404

EXAMINER					
HERNANDEZ, JOSIAH J					
ART UNIT	PAPER NUMBER				

2626

DATE MAILED: 04/24/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/812,561	03/30/2004	Lei Duan	50T5601.01/1696	3671

TITLE OF INVENTION: SYSTEM AND METHOD FOR EFFECTIVELY IMPLEMENTING AN OPTIMIZED LANGUAGE MODEL FOR SPEECH RECOGNITION

	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
•	nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/24/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

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Gregory J. Koerner Redwood Patent Law 1291 East Hillsdale Boulevard				State	reby certify that the es Postal Service versed to the Mail	is Fee(vith suf Stop	e of Mailing or Trans s) Transmittal is being ficient postage for fir ISSUE FEE address 1) 273-2885, on the d	g depo st clas	osited with the United is mail in an envelope or being facsimile.
Suite 205 Foster City, CA	94404								(Depositor's name)
Toster City, CA	71101								(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CO	NFIRMATION NO.
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nonprovisional	NO	\$1440	\$300		\$0		\$1740		07/24/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS						
HERNANDE	EZ, JOS1AH J	2626	704-243000						
"Fee Address" ind	oondence address (or Cha B/122) attached. lication (or "Fee Address 02 or more recent) attach	inge of Correspondence	2. For printing on (1) the names of u or agents OR, alter (2) the name of a registered attorney 2 registered patent listed, no name wil	ip to nativ single or a attor	3 registered patentiely, e firm (having as a gent) and the namineys or agents. If	t attorn membes of u	er a 2		
PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident th in 37 CFR 3.11. Comp GNEE	A TO BE PRINTED ON ified below, no assignee pletion of this form is NO	data will appear on t T a substitute for filing (B) RESIDENCE: (C	he pa g an a	ntent. If an assign assignment. and STATE OR C	OUNT	TRY)		
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):		Individual 🖵 Co	orporati	on or other private gr	oup er	ntity Government
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5. Change in Entity Sta			D						
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Gregory J. Koerr	ner		HERNANDE	Z, JOSIAH J	
Redwood Patent L	aw		ART UNIT	PAPER NUMBER	
1291 East Hillsdale Boulevard		2626 DATE MAILED: 04/24/2008			
Suite 205 Foster City, CA 94404					

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 860 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 860 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	10/812,561	DUAN ET AL.
Notice of Allowability	Examiner	Art Unit
	JOSIAH HERNANDEZ	2626
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included n will be mailed in due course. THIS
1. X This communication is responsive to 01/11/2008.		
2. ☑ The allowed claim(s) is/are <u>1-45</u> .		
3.	e been received. e been received in Application No cuments have been received in this of this communication to file a reply MENT of this application. hitted. Note the attached EXAMINER es reason(s) why the oath or declara- st be submitted.	national stage application from the complying with the requirements as AMENDMENT or NOTICE OF ation is deficient.
1) hereto or 2) to Paper No./Mail Date		,
(b) including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the	s Amendment / Comment or in the 0	ngs in the front (not the back) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal F 6. ☐ Interview Summary Paper No./Mail Da 7. ☐ Examiner's Amend 8. ☑ Examiner's Statem 9. ☐ Other	(PTO-413), te

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Response to Amendment

1. In response to the office Action filed October 9, 2007, applicant has submitted an Amendment, filed January 11, 2008 amending claims 1, 4, 5, 21, 24, 25, 41, and 42 and added new claims 43-45.

Allowable Subject Matter

- 2. Claims 1-45 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

As to claims 1, 21, 41, and 42, there is no prior art reference, alone or in combination, that teaches or fairly suggests combining a plurality of source models from different domains for speech recognition by using a weighted coefficient. This combination with coefficient makes up what is called "initial model". A plurality of initial models is generated by changing the value of the weighted coefficient between 0-1 and the sum of all the coefficient has to be equal to one. The coefficient is incremented at each interval, generating different initial models. Once the initial models have been generated, they are tested by processing speech recognition through that particular initial model and outputting an N-best list then calculating an word-error rate for each initial model. Then the initial model that has the most optimum word-error rate is

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chosen for that specific speech recognition application. Every time that there is a new application the system dynamically goes through the same process in order to elect at every application the initial model with the most optimum word-error rate.

Gao et al. (US 7,275,029) teaches using a joint optimize language model system where portions of documents are used by combining documents chunks with weighted coefficients in order to make one optimized language model (column 11 lines 35-65). However, none teach or suggest iteratively changing the weighted coefficients applied to the individual source model that are combined in order to generate a plurality of initial language models that further get tested by acquiring An N-best list and a calculation of the word-error rate from every initial model in order to choose the most optimum language combination.

Claims 2-20, 22-40, and 43-45 are allowed because they further limit their parent claims, which are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication should be directed to Josiah Hernandez whose telephone number is 571-270-1646. The examiner can normally be reached from 7:30 pm to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Hudspeth can be reached on (571) 272-7843. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JH

/David R Hudspeth/

Supervisory Patent Examiner, Art Unit 2626